

# **NOAA's Ship and Aircraft Support Office of Marine and Aviation Operations (OMAO)**



**University-National Oceanographic Laboratory System (UNOLS)  
Annual Meeting**

**Arlington, Virginia**

**October 13, 2009**



# Overview

- 📍 **NOAA Ship and Aircraft Accomplishments in FY2009**
- 📍 **NOAA Ship and Aircraft Activities/Changes in FY2009 and FY2010**
- 📍 **Budget - FY2009 and FY2010**
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- 📍 **NOAA Aircraft and Bases in FY2010**
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- 📍 **NOAA Ship Recapitalization Plan**
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# NOAA Ship & Aircraft Accomplishments in FY2009

## Operating Days and Flight Hours Accomplished

- 🌐 NOAA's Fleet of 19 vessels executed 3557 Operating Days.
- 🌐 NOAA outsourced a total of 1903 charter Operating Days.
  - 329 Charter Operating Days using UNOLS vessels
  - 1574 Charter Operating Days using private and commercial
- 🌐 NOAA aircraft executed a total of 3119 flight hours.
  - 1916 Aircraft Services Flight Hours
  - 1203 Program Flight Hours
    - 2294 Charter Flight Hours





# NOAA Ship & Aircraft Activities/Changes in FY2009 and FY2010

## Ship and Aircraft Activities/Changes:

- ✔ **NOAA Ship's *Albatross IV* decommissioned on November 20, 2008 after 47 years of service.**
- ✔ ***David Starr Jordan* will be decommissioned in FY2010 after 44 years of service.**
- ✔ **King Air delivered to NOAA and conducting shakedown flights. Will replace NOAA Citation when the aircraft begins operational missions.**
  - Citation has provided 22 years of service to NOAA.
- ✔ **Lake will be transferred to another agency**
  - Lake has provided 15 years of service to NOAA.
- ✔ **NOAA Twin Otter based in Monterey, California for regional operations.**
- ✔ **Shakedown cruises being conducted aboard NOAA Ship *Pisces* in preparation for programmatic operations in FY2010.**
- ✔ ***Bell M. Shimada* is expected to be delivered to NOAA in FY2010.**





# NOAA/OMAO Budget for FY2009

## ☑ FY2009 OMAO Omnibus Bill

- Data Acquisition/Fleet Planning and Maintenance and Aircraft Services (\$17.5M – Above FY2009 President’s Budget)
  - Fuel
  - Additional Flight Hours
  - Multibeam and echosounder equipment
  - Vessel and shoreside staffing
  - Small boat replacements and mission sensors
  - Ship Maintenance

## ☑ Stimulus Package – American Recovery and Reinvestment Act (ARRA)

- Vessel maintenance and Repair (\$20M)
  - Major repairs for *Oregon II* and *Rainier*
  - Drydockings for five other vessels
- Vessel Construction (\$78M)
  - Construction of FSV 6





# NOAA/OMAO Budget for FY2010

- ✔ **Current FY2010 President's Budget will fund ~3400 base operating days for the NOAA Fleet**
  - Anticipate funding for an additional 281 program funded sea days
- ✔ **Current FY2010 President's Budget will fund 2435 Aircraft Services flight hours**
  - Anticipate funding for an additional 1590 program flight hours





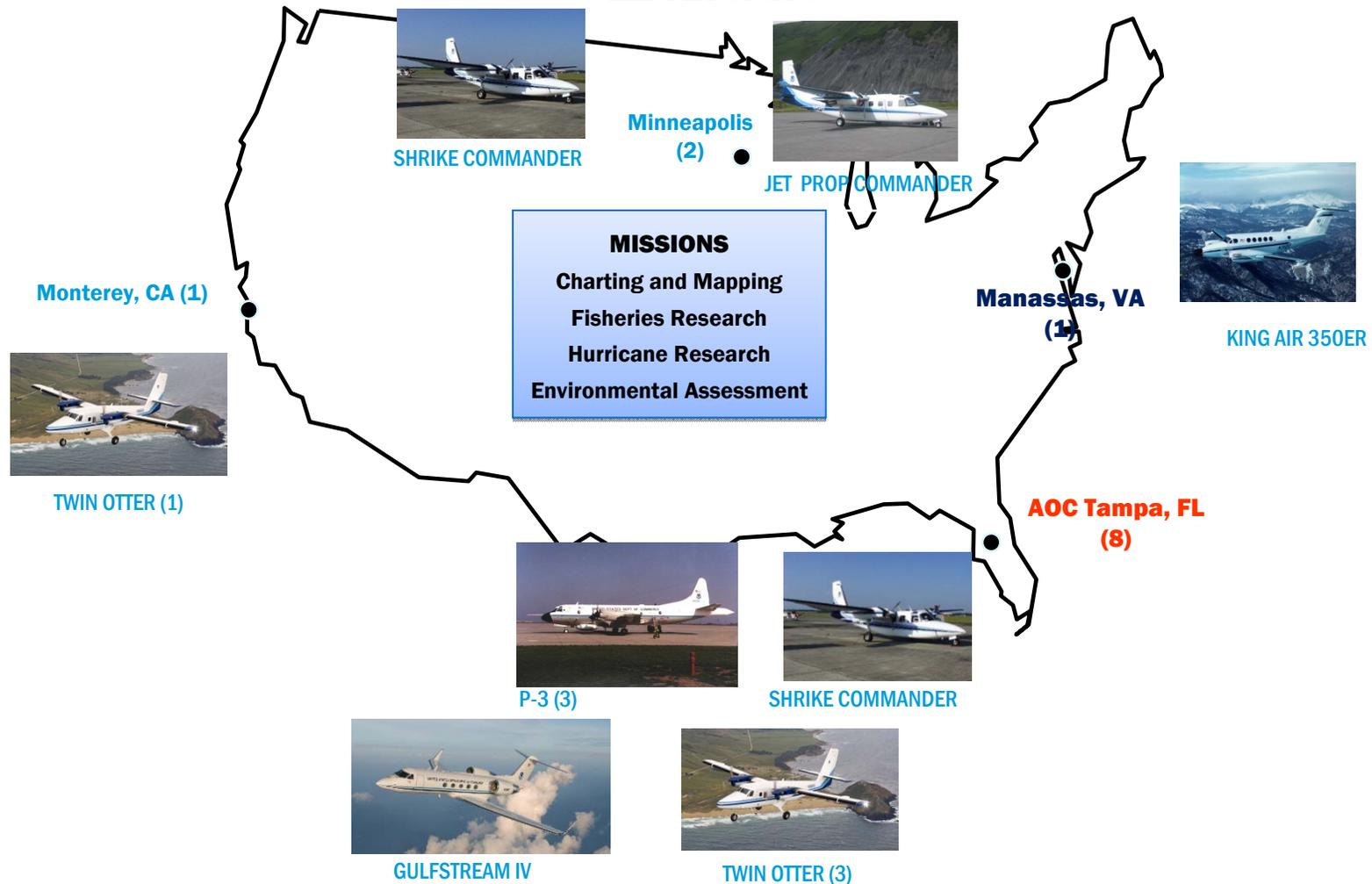
# NOAA Ships and Homeports in FY2010





# NOAA Aircraft and Bases in FY2010

## 12 Aircraft





# NOAA Ship and Aircraft Acquisition Updates

## Issue:

- Ongoing construction issues has contributed to lengthy delays in delivery of *Ferdinand R. Hassler* and *Bell M. Shimada*.
- NOAA continues to work with primary contractor to expedite delivery.

## Status:

- Projected delivery of *Ferdinand R. Hassler* is currently March, 2010.
- *Bell M. Shimada* Acceptance Trials were conducted August 24, 2009 through August 27, 2009.
- *Bell M. Shimada* Acoustic Trials were conducted September 26-28, 2009. Results indicate multiple issues.
- *Bell M. Shimada's* delivery pending solutions to the acoustic exceedences and other outstanding items.



*Ferdinand R. Hassler* being lifted into the water



*Bell M. Shimada*





# NOAA Ship and Aircraft Acquisition Updates

## Status:

- *Pisces* Acoustic Trial at USN's AUTEK Range in the Bahamas was conducted on July 21-23, 2009. Initial testing showed abnormal oscillation of SSDG #1. Working on problem.
  
- A third P-3 aircraft is scheduled to be delivered to NOAA in the first quarter of FY2010. After installation of main data system, new communication system and advanced avionics, the aircraft will support Air Chemistry and Atmospheric Research missions.



**Pisces**



**WP-3D Aircraft**





# NOAA Vessel Homeporting: Newport, Oregon

## Status:

- ❑ The lease for Marine Operations Center-Pacific (MOC-P) in Lake Union, WA expires in June, 2011.
- ❑ NOAA followed a competitive solicitation process in Washington and Oregon to award a new lease.
- ❑ On August 7, 2009 NOAA signed a 20-year lease with the Port of Newport, Oregon.
- ❑ In 2011 Newport will serve as homeport for Marine Operations Center-Pacific berthing four NOAA vessels



Architectural rendering of the proposed NOAA site provided by gLAS Architects, LLC, of Eugene, OR  
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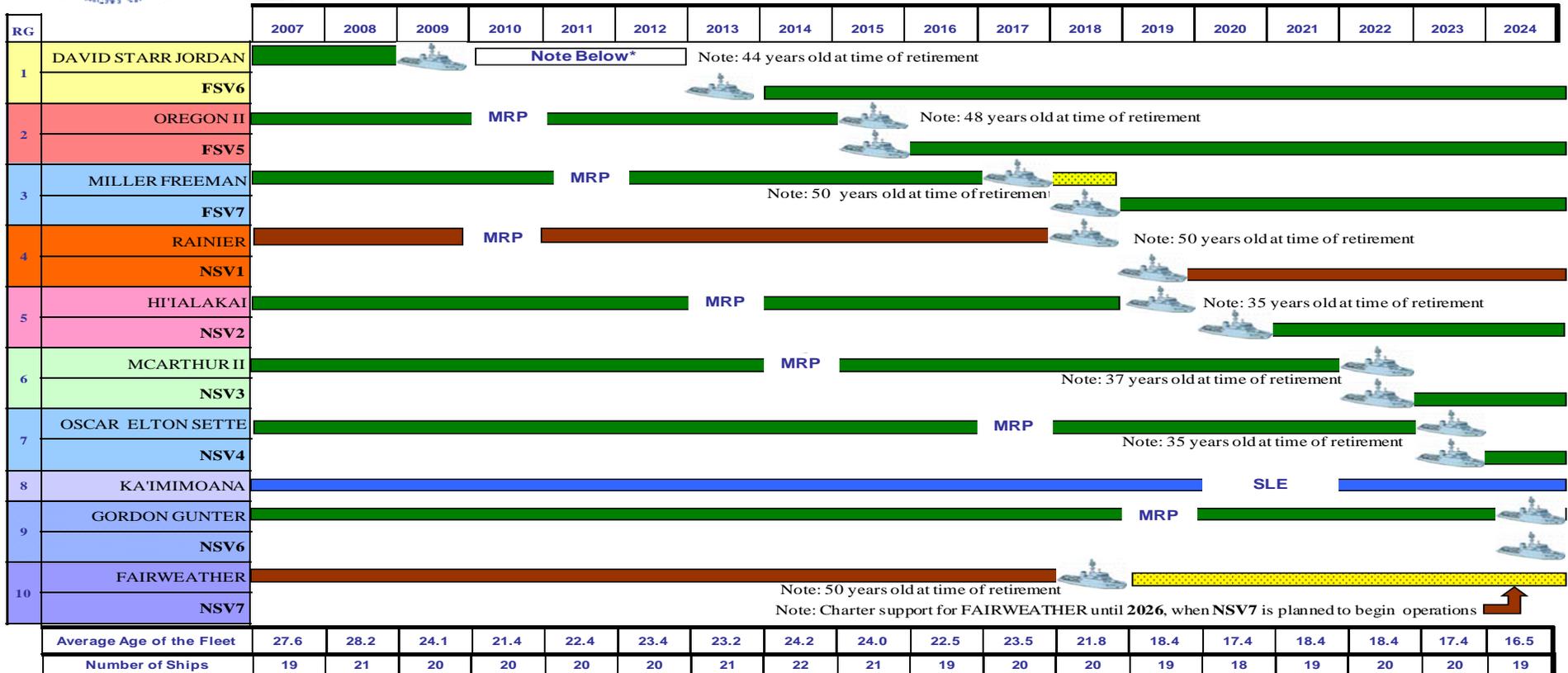


# NOAA Ship Recapitalization Plan



## NOAA Ship Recapitalization Plan FY 2010 to FY 2024 Revised 3/23/09

■ Ecosystems   
 ■ Commerce & Transportation   
 ■ Climate   
 First/last year of operations   



\* David Starr Jordan missions accomplished by Miller Freeman and McArthur II until Shimada begins operations in FY 2010, then FSV6 in 2013.





# Fleet Recapitalization 1: Fishery Survey Vessels

- Two (i.e., *Oscar Dyson* and *Henry B. Bigelow*) of seven planned acoustically-quiet Fisheries Survey Vessels (FSVs) are currently conducting operations.
- Two more FSVs (i.e., *Pisces* and *Bell M. Shimada*) expected to be fully operational in FY2010.
- \$3M in PAC funds are anticipated in FY10 to continue design work for FSV 5.
- RFP closing date for FSV 6 construction was September 24, 2009 and Source Evaluation Board will convene to select contractor. Projected award March, 2010.



Ship	Homeport	Commissioning Date
<i>Oscar Dyson</i>	Kodiak, AK	2005
<i>Henry Bigelow</i>	Newport, RI	2007
<i>Pisces</i>	Pascagoula, MS	2009
<i>Bell M. Shimada</i>	Seattle, WA Newport, OR	2010
FSV 5 (shallow draft)	Pascagoula, MS	2015
FSV 6	San Diego, CA	2013
FSV 7	Newport, OR	2018



# Fleet Recapitalization 2: NOAA Survey Vessels (NSVs)

- ✔ **Six additional multi-mission NOAA Survey Vessels (NSVs) will be placed in service between 2018 and 2024:**
  - NSVs will replace:
    - Two hydrographic survey vessels
    - Four fisheries/ecosystem research vessels
  - NSV mission requirements are currently being analyzed. They are projected to have a common baseline configuration, with minor variations to support specific missions (e.g. hydrographic survey or fisheries/ecosystem research).
- ✔ **One currently active ship which maintains buoy arrays used to understand climate change and El Nino-Southern Oscillation events will undergo a service-life extension.**
- ✔ **Phase II Recapitalization Plan being drafted to include entire fleet and look at cost effective ways to collect in situ data which may include use of other types of technology in addition to ships.**